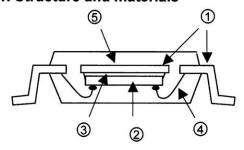


Package: SOP4/SSOP5/SSOP6

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1. Structure and materials		1/4 page
2. Tape and Reel informati	ion	1/4 to 3/4 page
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1. Structure and materials



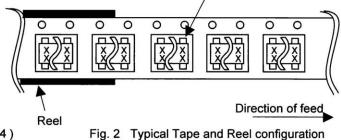
No.	Item	Materials	
1	Lead Frame	ame Cu-Alloy (External lead : Pb free solder plating)	
2	Die	Silicon	
3	Die Attach	Ag Paste	
4	Wire	Au	
⑤	Molding	Epoxy Resin	

Fig. 1 Structure

2. Tape and Reel information

2. 1. Packing specification

Tape Embossed carrier tape		
Quantity	See the table on page 4/4	
Direction of feed	TR (See Fig. 2)	



1Pin

2. 2. Tape and Reel specification

2. 2. 1. Tape and reel dimensions (See the table on page 4/4)

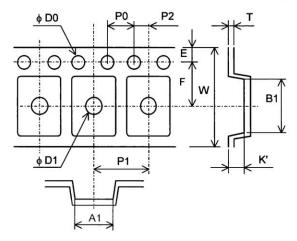


Fig. 3 Tape dimensions

D ° E W1 W1 W1

Fig. 4 Reel dimensions

2. 3. Leader and Trailer

2. 3. 1. Leader

No component pockets are 40 pockets or more.

2. 3. 2. Trailer

No component pockets are 10 pockets or more. Tape is free from reel.

2. 4. Label for Reel and Box

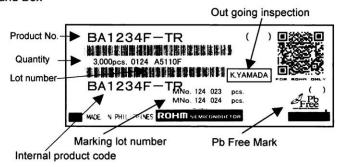
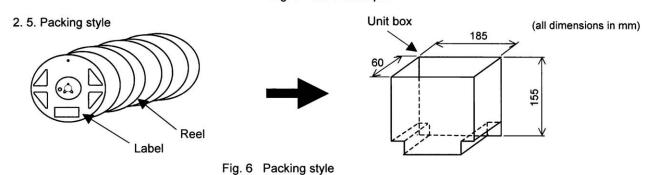
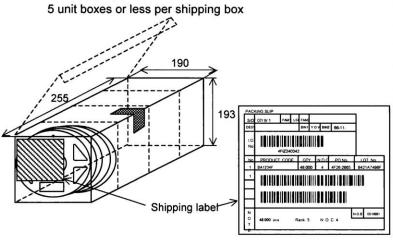


Fig. 5 Label example



2. 6. Shipping style



2. 7. Packing materials

Item	Material			
Embossed carrier tape	PS			
Cover tape	PET + PE			
Reel	PS			
Unit box	Cardboard			
Shipping box	Cardboard			

(all dimensions in mm)

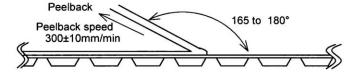
Fig. 7 Shipping box dimensions and Shipping style

2. 8. Others

2. 8. 1. Peelback strength

Cover tape peelback strength is 0.2 to 0.7N.

Fig. 8 Test method



- 2. 8. 2. Missing Ics
 - (1) No consecutive dropouts.
 - (2) A maximun 0.1% of specified number of products in each packing may be missing.

3. Storage conditions

3. 1. Storage environment

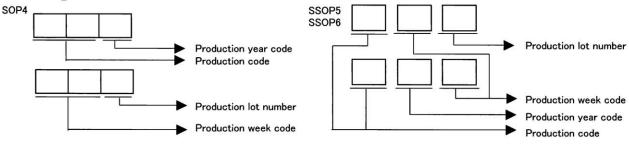
Recommended storage conditions are as follows:

-Temperature : 5 to 30°C -Humidity : 40 to 70% RH

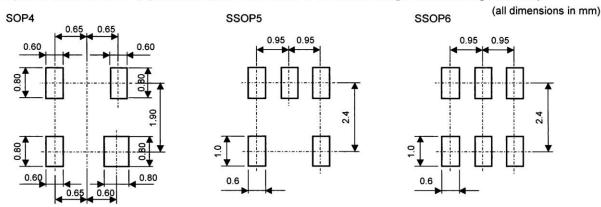
3. 2. Storage period

-Specified storage period: 1 year

4. Marking lot number

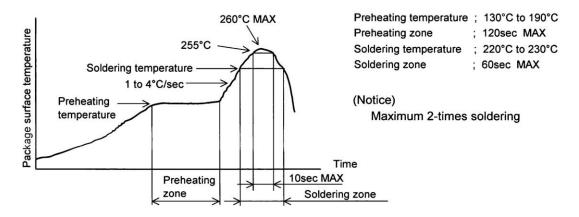


5. Footprint dimensions (Optimize footprint dimensions to the board design and soldering condition)



6. Soldering conditions

6. 1. Recommended temperature profile for reflow



6. 2. Recommended condition for wave soldering

Droope	Conditions				
Process	Temperature	Time			
Preheating	120°C to 150°C	60sec MAX			
Soldering	260°C ± 3°C	12sec MAX			

(Notice) Soldering time is provided for total soldering time in case of dual wave soldering.

6. 2. 1. Notes for wave soldering

- (1) Do not use other soldering methods with wave soldering.
- (2) Recommend to clean the board to eliminate flux, solder waste, and other impurities for reliability, after soldering.
- (3) Optimize soldering condition to prevent solder bridging.

6. 3. Recommended condition for solder iron

Recommended condition for solder iron
-Solder iron temperature : 380°C or less
-Mounting time : 4sec or less

< Tape dimensions >

D1	Quantity		Tape dimensions (all dimensions in mm)										
Package	(pcs)	A1	B1	D0	D1	E	F	K'	P1	P2	Т	W	P0
SOP4	3000	2.2	2.4	φ1.5	φ0.8	1.75	3.5	1.2	4.0	2.0	0.3	8.0	4.0
SSOP5	3000	3.2	3.1	φ1.5	φ1.1	1.75	3.5	1.3	4.0	2.0	0.3	8.0	4.0
SSOP6	3000	3.2	3.1	φ1.5	φ1.1	1.75	3.5	1.3	4.0	2.0	0.3	8.0	4.0
Toler	ance	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05	±0.1	±0.1	±0.1	±0.05	±0.3	±0.1

< Reel dimensions >

Dookooo	Reel dimensions (all dimensions in mm)						
Package	Α	A B C D E W1					
SOP4	φ180	ф60	ф13.0	ф20.2	1.5	10.0	16.0
SSOP5	φ180	φ50	ф13.0	ф20.2	1.5	10.0	16.0
SSOP6	φ180	φ50	φ13.0	ф20.2	1.5	10.0	16.0
Tolerance	MAX	±2.0	±0.5	MIN	MIN	±1.0	MAX

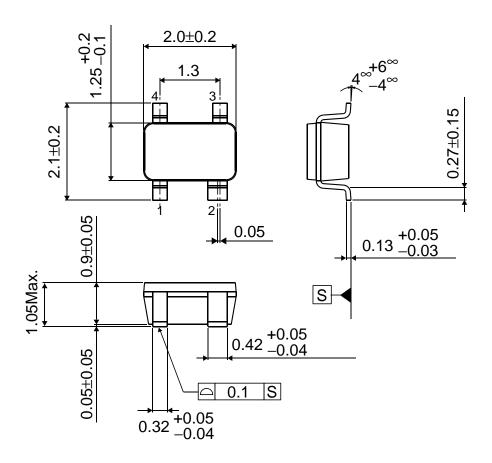
< Dehydrated weight >

Dehydrated weight dimensions in mg
6.0
14.0
14.0



Package Dimensions

SOP4

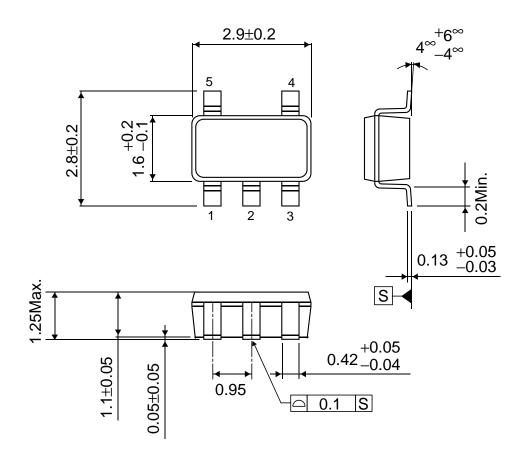


(Unit: mm)



Package Dimensions

SSOP5

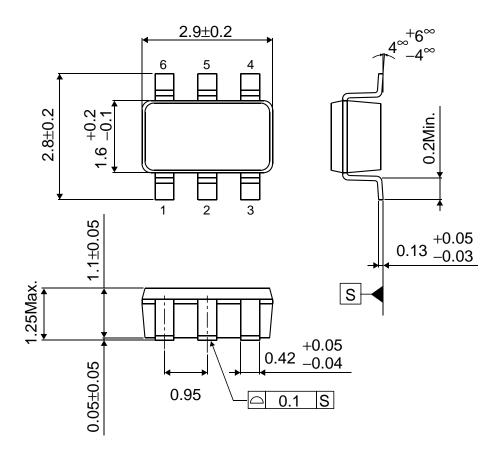


(Unit: mm)



Package Dimensions

SSOP6



(Unit: mm)

Notes

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